



Water-Data Report 2008

08017200 Cowleech Fork Sabine River at Greenville, TX

Sabine Basin
Upper Sabine Subbasin

LOCATION.--Lat 33°07'58", long 96°04'36" referenced to North American Datum of 1927, Hunt County, TX, Hydrologic Unit 12010001, on left bank 103 ft downstream from centerline of downstream bridge on Interstate Highway 30, 0.3 mi downstream from Horse Creek, 0.9 mi downstream from Louisiana and Arkansas Railroad Co. bridge, 1.8 mi east of Greenville, and at mile 558.3.

DRAINAGE AREA.--81.0 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Feb. 1959 to current year. Prior to Oct. 1963, published as "Sabine River at Greenville".

REVISED RECORDS.--WSP 2122: 1960, 1963-65. WDR-US-2007: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 485.07 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records fair except daily discharges for Aug. 25 to Sept. 30, which are good. No known regulation. The city of Greenville diverts water from city lakes upstream from gage and from Lake Tawakoni (station 08017400). Wastewater effluent was returned to a tributary downstream from gage. Extreme low flows are largely sustained by return water from a water treatment plant upstream. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1895, 22 ft in May 1935, from information by local resident and city engineer of Greenville. Flood of July 3, 1913, reached a stage of 20 ft, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 19	0430	*18,700	*18.87
No other peak greater than base discharge			

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.23	0.25	0.93	4.2	0.65	0.71	3.1	1.3	0.88	1.8	0.00	0.34
2	0.22	1.9	0.89	2.3	0.53	0.72	2.8	1.2	0.77	1.3	0.00	0.28
3	0.69	1.7	1.4	1.6	0.47	443	2.7	1.1	0.76	1.1	0.00	0.32
4	0.31	1.1	1.9	1.2	0.52	456	343	1.1	0.78	0.97	0.00	0.44
5	0.21	0.55	0.80	1.1	6.9	111	123	1.1	0.77	1.4	0.00	0.33
6	1.6	0.49	0.69	0.95	7.2	301	31	1.7	0.75	1.5	0.00	0.28
7	1.6	0.51	0.70	0.96	2.1	878	14	1.6	0.65	1.4	0.00	0.30
8	0.54	0.55	0.78	1.2	5.2	139	7.2	1.6	0.58	0.92	0.00	0.26
9	0.86	0.61	0.84	0.50	3.4	49	632	1.4	0.68	0.69	0.00	0.30
10	0.26	0.67	0.92	0.44	2.0	570	581	1.3	2.4	0.52	0.00	0.74
11	0.21	0.66	2.5	0.53	1.6	248	369	1.2	0.76	0.34	0.01	0.59
12	0.18	0.65	19	2.2	105	60	61	1.1	0.56	0.23	0.50	0.41
13	0.17	0.75	32	23	36	30	29	1.0	0.49	0.17	0.28	2.4
14	0.17	0.61	32	23	15	19	15	1.9	1.7	0.11	0.14	2.7
15	302	0.51	445	25	4.8	10	7.6	15	2.4	0.09	1.9	0.73
16	171	0.44	87	12	139	5.1	4.8	4.7	1.3	0.08	0.52	0.42
17	17	0.40	24	1.6	681	9.1	3.4	1.8	4.6	0.06	0.29	0.29
18	6.2	0.38	10	0.96	72	1,250	15	1.2	17	0.03	0.21	0.21
19	2.5	0.39	4.3	0.74	25	8,850	7.6	0.97	10	0.01	4.2	0.19
20	0.94	0.41	2.6	0.56	11	415	4.4	0.89	2.6	0.01	1.4	0.18
21	0.45	0.41	1.7	0.51	7.1	82	3.2	0.80	2.0	0.00	3.0	0.15
22	2.2	0.40	1.2	0.58	7.9	41	2.8	0.78	1.1	0.00	10	0.14
23	5.1	0.39	0.81	0.56	4.1	23	8.6	0.80	0.88	0.00	1.8	0.12
24	3.1	0.43	0.66	0.54	2.2	14	74	0.73	0.63	0.00	1.1	0.09
25	1.2	15	0.54	1.2	1.4	8.5	42	0.69	0.49	0.00	0.72	0.05
26	0.56	17	103	1.3	1.3	5.8	11	0.69	0.44	0.00	0.56	0.02
27	0.40	6.8	127	0.81	1.5	4.1	3.8	30	0.39	0.00	0.48	0.00
28	0.36	2.0	52	0.73	1.1	3.1	2.1	59	0.37	0.00	0.47	0.00
29	0.30	1.3	33	0.71	0.88	2.4	1.7	6.7	3.1	0.00	0.44	0.00
30	0.26	1.0	20	0.48	---	2.3	1.4	2.0	1.6	0.00	0.39	0.00
31	0.24	---	9.7	0.66	---	2.4	---	1.2	---	0.00	0.34	---
Total	521.06	58.26	1,017.86	112.12	1,146.85	14,033.23	2,407.2	146.55	61.43	12.73	28.75	12.28
Mean	16.8	1.94	32.8	3.62	39.5	453	80.2	4.73	2.05	0.41	0.93	0.41
Max	302	17	445	25	681	8,850	632	59	17	1.8	10	2.7
Min	0.17	0.25	0.54	0.44	0.47	0.71	1.4	0.69	0.37	0.00	0.00	0.00
Ac-ft	1,030	116	2,020	222	2,270	27,830	4,770	291	122	25	57	24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	52.5	56.8	103	62.9	88.3	106	93.5	125	72.7	29.7	4.95	24.1
Max	354	433	573	403	461	453	431	540	642	550	95.2	258
(WY)	(1972)	(1997)	(1972)	(1998)	(2001)	(2008)	(1966)	(1982)	(2007)	(2007)	(1977)	(1974)
Min	0.00	0.02	0.11	0.24	0.17	0.48	0.13	0.26	0.03	0.00	0.00	0.00
(WY)	(1996)	(1996)	(1990)	(1986)	(2007)	(1996)	(2006)	(2006)	(2006)	(2006)	(1985)	(1999)

08017200 Cowleech Fork Sabine River at Greenville, TX—Continued**SUMMARY STATISTICS**

	Calendar Year 2007	Water Year 2008	Water Years 1959 - 2008
Annual total	57,784.60	19,558.32	
Annual mean	158	53.4	68.2
Highest annual mean			163
Lowest annual mean			2.85
Highest daily mean	4,260	Jun 29	9,730
Lowest daily mean	0.00	Mar 21	0.00
Annual seven-day minimum	0.00	Aug 23	0.00
Maximum peak flow		18,700	18,700
Maximum peak stage		18.87	18.87
Annual runoff (ac-ft)	114,600	38,790	49,410
10 percent exceeds	211	34	53
50 percent exceeds	1.2	1.1	1.3
90 percent exceeds	0.07	0.12	0.01

